

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 10/540436 Confirmation No.: 1654
Applicant(s): Dirk Nuber Group Art Unit: 3653
Examiner:
Filed: 11/10/2005
Customer No.: 27123
For: METHOD AND APPARATUS FOR HEAT TREATMENT IN A FLUIDIZED BED

REQUEST FOR REPUBLICATION

Via USPTO E-Filing

Dear Sir:


Re-publication is requested to include the omitted inventors in view of the error which appears in the original publication (inventors omitted: Werner Stockhausen and Michael Stroder). For the convenience of the Patent and Trademark Office, attached is a photocopy of the original publication, on which the error has been highlighted, a copy of the executed declaration and the application transmittal as filed.

The Commissioner is hereby authorized to charge any additional fees which may be required by this paper, or credit any overpayment to Deposit Account No. 13-4500, Order No. 4791-4011.

Respectfully submitted,
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Dated: March 1, 2007

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US 20060231466A1

(19) **United States**(12) **Patent Application Publication** (10) Pub. No.: **US 2006/0231466 A1**

Nuber

(43) Pub. Date: **Oct. 19, 2006**(34) **METHOD AND APPARATUS FOR HEAT TREATMENT IN A FLUIDIZED BED**

(52) U.S. CL 209/11; 209/455; 208/128

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ABSTRACT

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(21) Appl. No.: 10/540,436

(22) PCT Filed: Dec. 10, 2003

(86) PCT No.: PCT/EP03/13982

(30) Foreign Application Priority Data

Dec. 23, 2002 (DE) 10260741.9

Publication Classification

(51) Int. Cl.
B03B 9/06 (2006.01)
C10G 9/36 (2006.01)

The present invention relates to a method for the heat treatment of fine-grained solids, in particular gypsum, in which the solids are heated to a temperature of 50 to 1000° C. in a fluidized bed reactor (1), and to a corresponding plant. To improve the energy utilization, it is proposed to introduce a first gas or gas mixture from below through a preferably central gas supply tube (3) into a mixing chamber (21) of the reactor (1), the gas supply tube (3) being at least partly surrounded by a stationary annular fluidized bed (2) which is fluidized by supplying fluidizing gas, and to adjust the gas velocities of the first gas or gas mixture as well as of the fluidizing gas for the annular fluidized bed (2) such that the particle Froude numbers in the gas supply tube (3) are between 1 and 100, in the annular fluidized bed (2) between 0.02 and 2 and in the mixing chamber (21) between 0.3 and 30.

